

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Divisional Application of:)
Minoru MIYAZAKI et al) Attn: Applications Branch
Based on US Serial No. 10/193,163) Group Art Unit: 2814
Which Was Filed: July 12, 2002)
For: ELECTRONIC CIRCUIT) Date: July 17, 2003

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
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Alexandria, VA 22313-1450

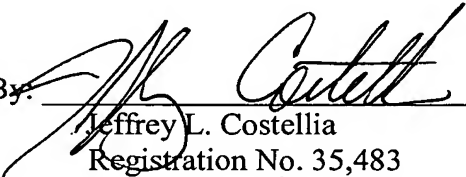
Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. §1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98. All the references cited on the PTO-1449 Form was cited in the above parent application.

It is requested that the accompanying PTO-1449 be considered and made of record in the above-identified application. To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

The Commissioner is hereby authorized to charge any fees connected with this filing which may be required now, or credit any overpayment to Deposit Account No. 19-2380.

Respectfully submitted,

By: 
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Substitute for form 1449A/PTO				Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	Not Yet Assigned	
				Filing Date	July 17, 2002	
				First Named Inventor	Minoru MIYAZAKI et al.	
				Group Art Unit	Not Yet Assigned	
				Examiner Name	Not Yet Assigned	
Sheet	1	of	3	Attorney Docket Number	740756-2624	
U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		4,517,583		Uchida	05/1985	
		5,182,624		Tran et al.	01/1993	
		5,198,379		Adan	03/1993	
		5,202,575		Sakai	04/1993	
		5,246,872		Mortensen	09/1993	
		5,306,651		Masuno et al.	04/1994	
		5,316,960		Watanabe et al.	05/1994	
		5,365,104		Godinho et al.	11/1994	
		5,365,112		Oshima	11/1994	
		5,371,042		Ong	12/1994	
		5,380,678		Yu et al.	01/1995	
		4,783,248		Kohlhase et al.	11/1988	
		5,157,470		Matsuzaki et al.	10/1992	
		5,938,839		Zhang	08/1999	
		5,397,744		Sumi et al.	03/1995	
		5,434,044		Nulman et al.	07/1995	
		5,459,353		Kanazawa	10/1995	
		5,472,912		Miller	12/1995	
		5,623,157		Miyazaki et al.	04/1997	
		5,804,878		Miyazaki et al.	09/1998	
		6,031,290		Miyazaki et al.	02/2000	
		6,259,120	B1	Zhang et al.	06/2001	
		5,323,042		Matsumoto	06/1994	
		5,412,493		Kunii et al.	05/1995	
		5,567,966		Hwang	10/1996	
		5,698,883		Mizuno	12/1997	
		5,808,347		Kurimoto et al.	09/1998	
		5,677,240		Murakami et al.	10/1997	
		5,808,315		Murakami et al.	09/1998	
		4,887,146		Hinode	12/1989	
		5,644,370		Miyawaki et al.	07/1997	
		6,166,414		Miyazaki et al.	12/2000	
		4,928,156		Alvis et al.	05/1990	
		4,193,080		Koike et al.	03/1980	
		5,498,573		Whetten	03/1996	
Examiner Signature				Date Considered		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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				Examiner Name	Not Yet Assigned
Sheet	2	of	3	Attorney Docket Number	740756-2624

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴ Kind Code ⁵ (if known)				
			54-137286	Japan	10/1979	Eng. Abstr.	
			0 480 409	Europe	04/1992		
			3-135018	Japan	06/1991	Eng. Abstr.	
			02-271632	Japan	11/1990	Full Eng.	
			04-100232	Japan	04/1992	Full Eng.	
			05-102055	Japan	04/1993	Eng. Abstr.	
			05-267667	Japan	10/1993	Eng. Abstr.	
			06-104196	Japan	04/1994	Eng. Abstr.	
			01-122168	Japan	05/1989	Eng. Abstr.	
			03-108767	Japan	05/1991	Eng. Abstr.	
			04-112529	Japan	04/1992	Eng. Abstr.	
			04-301623	Japan	10/1992	Eng. Abstr.	
			05-021796	Japan	01/1993	Eng. Abstr.	
			05-210117	Japan	08/1993	Eng. Abstr.	
			05-235360	Japan	09/1993	Eng. Abstr.	
			62-259469	Japan	11/1987	Eng. Abstr.	
			63-185066	Japan	07/1988	Eng. Abstr.	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		R. C. Ellwanger et al., "The deposition and film properties of reactively sputtered titanium nitride," 1988, pp. 289-304.	
		H. Joswig et al., "Advanced metallization of very-large-scale integration devices," 1989, pp. 17-22.	
		Specification and Drawings for Application Serial No. 09/190,618, "Semiconductor Device and Method for Fabricating the Same."	
		H. Maeda et al., "A 15-in.-Diagonal Full-Color High-Resolution TFT-LCD", SID 92 Digest, May 17-22, 1992; pages 47-50.	
		M. Yamamoto et al., "15-inch a-SiTFT-LCD," Chapter 2 Latest AM-LCD Technology, Volume 1 Outline; October 1, 1992, pages 52-55.	
Examiner Signature		Date Considered	

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				Art Unit		2814	
				Examiner Name		Ngan V. Ngo	
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		US-5,288,666		02/22/1994	Lee	

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		Country Code ³ Number ⁴	Kind Code ⁵ (if known)				
		JP 63-076212		04/06/1988	Isozaki et al.		AB
		JP 63-312964		12/21/1988	Mueller		AB
		JP 01-113731		05/02/1989	Iwabuchi et al.		AB
		JP 01-129234		05/22/1989	Mimura et al.		AB
		JP 01-187983		07/27/1989	Ri		AB
		JP 01-259320		10/17/1989	Fukuyoshi		AB
		JP 02-012873		01/17/1990	Matsumoto		AB
		JP 02-260640		10/23/1990	Imura		AB
		JP 03-212976		09/18/1991	Takato et al.		AB
		EP 0 459 836 B1		12/04/1991	Zhang		Eng.
		EP 0 459 836 A2		12/04/1991	Zhang		Eng.
		JP 62-109364		05/20/1987	Shima et al		AB
		JP 02-254729 A		10/15/1990	Takeuchi		AB
		JP 04-223341 A		08/13/1992	Lee		AB
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